

PE JCA

PATENT Attorney Docket No. 215851

Art Unit: 1621

Examiner: M. L. Shippen

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re Application of:

Ikemoto et al.

Application No. 10/086,076

Filed: February 28, 2002

or: PRODUCTION METHOD OF CITALOPRAM.

INTERMEDIATE THEREFOR AND PRODUCTION

METHOD OF THE INTERMEDIATE

AMENDMENTS TO ABSTRACT AND CLAIMS MADE IN RESPONSE TO OFFICE ACTION DATED AUGUST 8, 2002

(Deletions are indicated by cross-out text, while additions are indicated by underlined text)

## IN THE ABSTRACT:

## **ABSTRACT**

A compound of formula [V] is prepared by oxidizing a compound of formula [III]. Citalopram can be industrially and economically produced and at a high yield by reacting converting a compound of the following formula [V], which is prepared from a compound of formula [III], to a compound of formula [VI], and then alkylating the compound of formula [VI] to form citalopram with 3 (dimethylamino)propyl chloride in the presence of at least one of N,N,N',N' tetramethylethylenediamine and 1,3 dimethyl 2 imidazolidinone and a condensing agent. The compound of the following formula [III], which is a key compound for the production of citalopram, can be easily produced by subjecting the compound of the following formula [III] to reduction and cyclization: